

FIG. 1 PRIOR ART

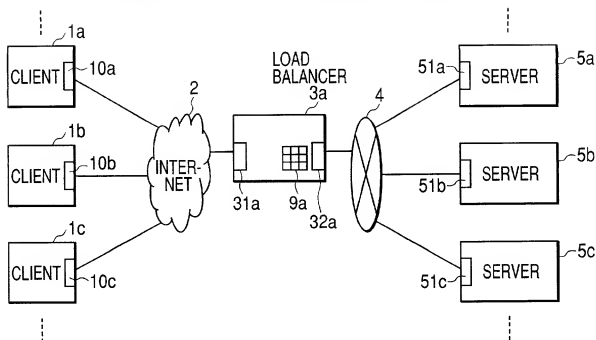


FIG. 2 PRIOR ART

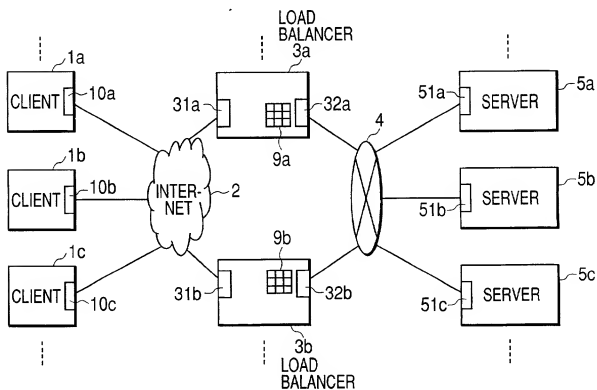


FIG. 3

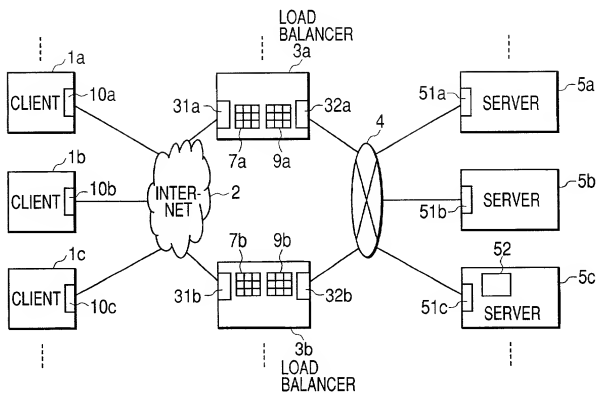


FIG. 4A

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (LOAD BALANCER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	31a-IP-1	80	-----
800	801	802	803	804

FIG. 4B

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (SERVER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	51a-IP	80	-----
805	806	807	808	809

FIG. 5ACCESS
CORRESPONDENCE
TABLE

9a

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME- STAMP
10a-IP	1029	31a-IP-1	51a-IP	80	320	0	—
10b-IP	1028	31a-IP-2	51b-IP	21	29	2	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901 902 903 904 905 906 907 908

FIG. 6ACCESS
CORRESPONDENCE
TABLE

9b

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME- STAMP
10c-IP	1050	31b-IP-1	51c-IP	80	89	0	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901 902 903 904 905 906 907 908

FIG. 7ATRANSFER PROCESSING
MODE TABLE

7a

IP	MODE
31a-IP-1	NORMAL
31a-IP-2	NORMAL
⋮	⋮

70

71

FIG. 7BTRANSFER PROCESSING
MODE TABLE

7b

IP	MODE
31b-IP-1	NORMAL
⋮	⋮
⋮	⋮

70

71

FIG. 8A

TRANSFER
PROCESSING
MODE TABLE

7b	
IP	MODE
31b-IP-1	NORMAL
31a-IP-1	TRANSITION
⋮	⋮

70

71

FIG. 8B

TRANSFER
PROCESSING
MODE TABLE

7a	
IP	MODE
31a-IP-2	NORMAL
⋮	⋮
⋮	⋮

70

71

FIG. 8C

TRANSFER
PROCESSING
MODE TABLE

7b	
IP	MODE
31b-IP-1	NORMAL
31a-IP-1	NORMAL
⋮	⋮

70

71

FIG. 9

ACCESS
CORRESPONDENCE
TABLE

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME- STAMP
10c-IP	1050	31b-IP-1	51c-IP	80	89	0	—
10b-IP	1029	31a-IP-2	51a-IP	80	320	0	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901

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903

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908

FIG. 10

ACCESS
CORRESPONDENCE
TABLE

CLIENT		LOAD BALANCER (EXTERNAL INTERFACE)	SERVER		TCP FLOW CONTROL		
IP	PORT	IP	IP	PORT	SEQ.	DELTA	TIME- STAMP
10b-IP	1028	31a-IP-2	51b-IP	21	29	2	—
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

901

902

903

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907

908

FIG. 11A

SOURCE ADDRESS (CLIENT)		DESTINATION ADDRESS (LOAD BALANCER)		OTHER INFORMATION
IP	PORT	IP	PORT	
10a-IP	1029	31a-IP-1	80	-----

810
811
812
813
814

P1a

FIG. 11B

SOURCE ADDRESS (LOAD BALANCER)		DESTINATION ADDRESS (SERVER)		OTHER INFORMATION
IP	PORT	IP	PORT	
32a-IP-1	2011	51a-IP	80	-----

815
816
817
818
819

P5a

FIG. 12

ACCESS
CORRESPONDENCE
TABLE
90a

CLIENT		LOAD BALANCER			SERVER		TCP FLOW CONTROL		
		EXTERNAL INTERFACE	INTERNAL INTERFACE						
IP	PORT	IP	IP	PORT	IP	PORT	SEQ.	DELTA	TIME-STAMP
10a-IP	1029	31a-IP-1	32a-IP-1	2011	51a-IP	80	320	0	—
10b-IP	1028	31a-IP-2	32a-IP-2	2010	51b-IP	21	29	2	—
:	:	:	:	:	:	:	:	:	:
901	902	903	913	914	904	905	906	907	908

FIG. 13

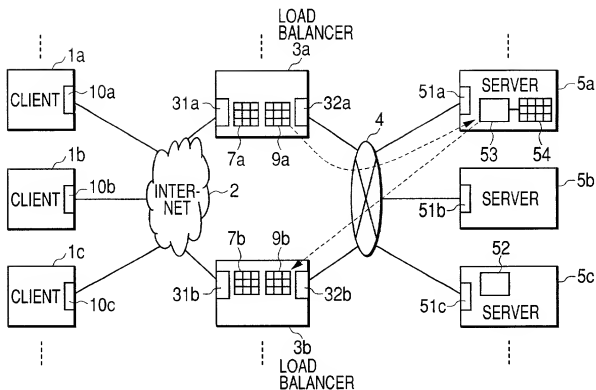


FIG. 14

TCP/IP
CONNECTION TABLE
100

CLIENT		OBJECT HOST		TCP FLOW CONTROL	
IP	PORT	IP	PORT	SEQ.	TIMESTAMP
10a-IP	1029	51a-IP	80	320	—
⋮	⋮	⋮	⋮	⋮	⋮

930

931

932

933

934

935